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071605T4AUT**AUTOMOTIVE TECHNICIAN LEVEL 5****ENG/OS/AUT/CR/1/5**

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PERFORM VEHICLE BASIC MAINTENANCE**July/Aug 2025**

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**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

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WRITTEN ASSESSMENT**TIME: 3 HOURS**

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INSTRUCTIONS TO CANDIDATE

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1. The paper consists of **TWO** sections: **A** and **B**.
2. Attempt **ALL** the questions in Section **A** and any **THREE** questions from Section **B**
3. You are provided with a separate answer booklet
4. **DO NOT** write on this question paper.
5. Do not write on the question paper

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This paper consists of THREE (3) printed pages

**Candidate should check to ascertain that all pages are printed as indicated and that no
page are missing**

Turn Over

SECTION A (40 MARKS)

Answer ALL question in this section

1. Reading vehicles map on the vehicle is key. List **four** important information to acquire in the manual. (4 Marks)
2. Different work places have different work practices and different machines. Highlight **four** rules to be followed in automotive workshop. (4 Marks)
3. A vehicle has been brought to the workshop for service. You decide to perform some diagnostic tests on the vehicles. However, the engine won't start. Highlight **four** probable causes of engine failure to start. (4 Marks)
4. Wheel alignment is an essential maintenance practice for wheels. State **four** effects of wheel misalignment on a vehicle's performance. (4 Marks)
5. A technician is tasked to identify a fluid to be used in the vehicle braking system. State **four** qualities of the brake fluids. (4 Marks)
6. Tyre rotation is one of the maintenance practices done on tyres. Outline **four** reasons why tyre rotation should be done. (4 Marks)
7. You are an automotive supervisor working in a garage and a client asks you to explain to him or her how to maintain a vehicle battery. Briefly explain any **four** items which should be checked while inspecting a vehicles battery. (4 Marks)
8. When carrying out any diagnosis/ troubleshooting for a car, there are three ways of arriving at a conclusion. Give **four** steps to take before you arrive at any conclusion as an automotive engineering technician. (4 Marks)
9. Identify **four** protecting vehicle body from damage. (4 Marks)
10. Safety is an important aspect to consider when working on wheels and tyres. List **four** safety precautions to be observed when inflating a tyre. (4 Marks)

SECTION B (60 MARKS)

Answer ANY THREE questions in this section.

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11. a) Explain **four** reasons why wheel alignment is necessary in an automobile. (8 Marks)
- b) A vehicle braking system is an essential system for automobile. Describe **six** routine maintenances to be carried out in vehicle braking system. (12 Marks)

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12. a) A vehicle has been brought into the workshop. Explain **four** key points followed while checking for the level of oil present in the sump. (4 Marks)
- b) Explain **three** methods of tyre inflation. (6 Marks)
- c) Maintenance is an essential practice for proper functioning of every automobile. Describe **five** maintenance practices that should be carried out on wheels and tyres (10 Marks)

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13. a) A car in garage, Outline **eight** the procedure to be followed when carrying out wheel alignment after a repair of the steering system. (8 Marks)
- b) A vehicle with a broken leaf springs has been brought to your workshop and the owner asks you to explain to him or her break. Explain **three** possible causes (6 Marks)
- c) The introduction of tubeless tires to automotive industry has outlived the tube type. **Give in three** advantages of tubeless tires over tube type. (6 Marks)

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14. a) Overhauling an engine is an exercise that requires many tests and measurements using specialized tools. Outline **four** tools that are used in taking measurements in an overhauled engine (4 Marks)
- b) A vehicle is brought to the workshop with faulty braking system. Outline **six** main procedure to be followed when bleeding brakes after a repair of the hydraulic braking system. (6 Marks)
- c) As a lead technician you have been assigned to supervise other technicians. Give them **ten** steps for changing engine oil. (10 Marks)

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